It's Under Control®

T4

2.4GHz

Universal System Controller

Operation Guide

70-210069-25 V 1.0

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FEDERAL COMMUNICATIONS COMMISSION NOTICE

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference.
2. This device must accept any interference received including interference that may cause undesired operation.

Contains FCC ID: MMURTI1300
Contains FCC ID: S2Y-WLAN-11B-G

Contains IC (Canada): 3166A-RTI1300

117 612 914

DECLARATION OF CONFORMITY (DOC)

The Declaration of Conformity for this product can be found on the RTI website at: www.rticorp.com/declaration

BATTERY DISPOSAL

For environmental reasons, your T4 Universal System Controller uses "environmentally sound" Lithium-ion rechargeable batteries. These batteries do not contain any poisonous heavy metals that can damage the environment.

In the interest of recycling, please do not dispose of these batteries in the household waste at the end of their useful life. Instead, dispose of them at an appropriate collection site.

SAFETY SUGGESTIONS

Read Instructions. Read all safety and operating instructions before operating the unit.

Retain Instructions. Keep the safety and operating instructions for future reference.

Heed Warnings. Adhere to all warnings on the unit and in the operating instructions.

Follow Instructions. Follow operating instructions and instructions for use.

Heat. Keep the unit away from heat sources such as radiators, heat registers, stoves, etc., including amplifiers that produce heat.

Do Not Open Battery Compartment. This device contains Lithium-Ion or Lithium-Polymer batteries. Batteries should only be replaced by an authorized service center or trained installer.

Power Sources. Connect the unit only to a power supply of the type described in the operating instructions, or as marked on the unit.

Power Cord Protection. Route power supply cords so that they are not likely to be walked on or pinched by items placed on or against them, paying particular attention to the cord plugs at power receptacles and at the point at which they exit from the unit.

Water and Moisture. Do not use the unit near water—for example, near a sink, in a wet basement, near a swimming pool, near an open window, etc.

Object and Liquid Entry. Do not allow objects to fall or liquids to be spilled into the enclosure through openings.

Servicing. Do not attempt any service beyond that described in the operating instructions. Refer all other service needs to qualified service personnel.

Damage Requiring Service. The unit should be serviced by qualified service personnel when:

- The power supply cord or the plug has been damaged.
- Objects have fallen or liquid has been spilled into the unit.
- The unit has been exposed to rain.
- The unit does not appear to operate normally or exhibits a marked change in performance.
- The unit has been dropped or the enclosure has been damaged.

WARNING!

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THE UNIT TO RAIN OR MOISTURE.

LIMITED WARRANTY

Remote Technologies Incorporated warrants its products for a period of one (1) year (90 days only for included battery packs) from the date of purchase from Remote Technologies Incorporated or an authorized Remote Technologies Incorporated distributor.

This warranty may be enforced by the original purchaser and subsequent owners during the warranty period, so long as the original dated sales receipt or other proof of warranty coverage is presented when warranty service is required.

Except as specified below, this warranty covers all defects in material and workmanship in this product. The following are not covered by the warranty:

Damage resulting from:

1. Accident, misuse, abuse, or neglect.
2. Failure to follow instructions contained in this Guide.
3. Repair or attempted repair by anyone other than Remote Technologies Incorporated.
4. Failure to perform recommended periodic maintenance.
5. Causes other than product defects, including lack of skill, competence or experience of user.
6. Shipment of this product (claims must be made to the carrier).
7. Being altered or which the serial number has been defaced, modified or removed.

Remote Technologies Incorporated is not liable for any damages caused by its products or for its failure of its products to perform, including any lost profits, lost savings, incidental damages, or consequential damages.

Remote Technologies Incorporated is not liable for damages based upon inconvenience, loss of use of the product, loss of time, interrupted operation, commercial loss, any claim made by a third party or made by you for a third party.

Remote Technologies Incorporated's liability for any defective product is limited to repair or replacement of the product, at our option.

If your T4 Universal System Controller needs service, please contact Remote Technologies Incorporated by telephone, fax or E-mail for return information. **Please do not return products to Remote Technologies Incorporated without return authorization**.

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ZigBee is a registered trademark of the ZigBee Alliance.

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CHAPTER 1 | WELCOME

Thank you for purchasing the T4 (2.4GHz) Universal System Controller.

The T4 is RTI's flagship wireless controller - the culmination of many years of engineering and design experience. Sleek and sophisticated, the T4 is the perfect compliment to today's flat panel televisions and high-end home theaters. The highly stylized design, user-friendly ergonomics, and intuitive operation all work together to provide the richest possible experience.

The T4 provides a self-contained control system for controlling audio/video components, lights, and other electronic systems in the home. The addition of wireless Ethernet allows the user to access wireless video (motion JPEG) and web pages. With a TFT LCD, full VGA resolution, powerful 400MHz 32-bit MCU, 32MB of Flash memory, stereo speakers, and an expandable architecture, the T4 defines "state-of-the-art" in touchpanel control.

The T4 is more than just a universal remote control - it's an expandable control system. When used with the available RTI automation devices, the T4 is capable of bi-directional communication using ZigBee® technology, allowing feedback from compatible devices such as music servers, environmental controls and even web-based information services such as weather forecasts.

The T4 utilizes the latest in radio frequency technology. ZigBee® is a communication standard (IEEE 802.15.4) that uses radio frequency (RF) at 2.4GHz to create a self-healing wireless mesh network. This allows bi-directional communication between the T4 and two-way enabled RTI control processors via RTI ZM-24 Transceiver Modules. Designed for easy network expansion, multiple ZM-24 Transceiver Modules may be widely deployed, providing ultra-reliable and low-cost control of very large areas.

Because RTI's remote control products are sold only through professional installers/programmers, and never directly to consumers, it is our philosophy to not incorporate programming capability directly into our products. Instead, we are committed to providing our dealers with the hardware and software tools that allow them to create re-usable programming databases and templates in the most efficient and reliable way possible.

COMPATIBILITY

The T4 and *Integration Designer*® software are compatible with infrared (IR) commands with carrier frequencies between 15KhZ and 460KhZ, as well as those commands that do not use a carrier. This covers virtually all of the remotes that exist to date.

SOFTWARE REQUIREMENTS

The recommended minimum system requirements needed to run the *Integration Designer*® software are as follows:

- Windows XP®, Windows Vista® or later version of Microsoft operating system.

CHAPTER 1 | WELCOME

UNPACKING AND INSPECTION

After unpacking your new T4 Universal System Controller, save all of the packing materials in case you ever have to ship the unit.

Thoroughly inspect the T4 and packing materials for signs of damage. Report any damage to the carrier immediately. Report any equipment malfunctions to Remote Technologies Incorporated or an authorized Remote Technologies Incorporated distributor.

PRODUCT CONTENTS

Contents within the box include the following items:

- One (1) T4 Universal System Controller
- One (1) Docking station
- One (1) Universal power supply for docking station
- One (1) Operation guide

CHAPTER 2 | INTRODUCTION

FEATURES

The T4 provides superior quality and reliability as well as these features:

- Full VGA resolution (640x480) color LCD to display custom buttons, text and graphics.
- Integrated 802.11 WiFi.
- Integrated high-resolution touchscreen.
- Powerful 32-bit, 400Mhz Xscale® processor.
- Optional interface utilizes ZigBee® technology (802.15.4 Wireless Mesh Networking) to provide feedback from compatible equipment.
- Tilt switch can automatically turn on the backlight when picked up.
- Extremely bright, backlit display and keys with adjustable brightness.
- Stereo speakers for custom sounds
- Thirteen assignable/programmable keys.
- Transmits IR and RF (or both - on a single button press!).
- Optional 2.4GHz ZM-24 Transceiver Module allows RF transmission through walls, cabinets etc.
- System includes a Lithium-Polymer battery and docking station.
- Completely customizable and programmable.
- Extremely wide IR transmitting frequency range.
- Non-volatile Flash memory stores your system configuration even when power is not present.
- Field upgradable firmware.
- USB and wireless Ethernet programming.

IMPORTANT NOTES

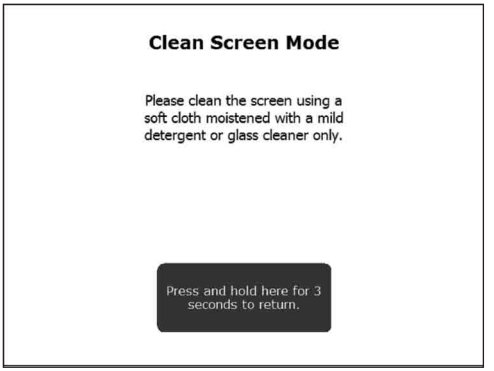
Please read these important notes about the T4:

- The T4 should be placed in an area where it is around normal room temperature (between 60 F to 90 F). If the temperature is too hot, the display appears dim. If the temperature is too cold, the display appears dark and may respond slowly.
- Avoid installing the T4 in a location where it can come in contact with direct sunlight.
- Do not use sharp objects on the touchscreen. It is designed to operate with a touch of your finger.
- Do not let the T4 get wet. It should not be handled with wet hands or placed in an area where it could get wet.
- Do not subject the T4 to smoke, dust, or vibrations. The display may be damaged from excessive shock or vibration.
- Only use the power supply that is specified for the T4. Using the wrong type of power supply may result in damage.
- Do not disassemble the unit. Service of the T4 should be performed by authorized personnel only.

CHAPTER 2 | INTRODUCTION

CLEANING

Occasional cleaning may be required, depending on use. It is recommended that you create a “Clean” button somewhere on the Home page of the T4. This button should link to a page that does not contain commands or macros that could be inadvertently executed while cleaning the unit.


Clean Screen Mode
Please clean the screen using a soft cloth moistened with a mild detergent or glass cleaner only.
Press and hold here for 3 seconds to return.

BATTERY AND DOCKING STATION

The T4 uses a Lithium-polymer rechargeable battery. This battery does not exhibit any type of “Memory Effect” from being charged too often. Since the T4 can safely be charged after each use, a docking station is included for convenience. If left out of the docking station, the T4 will remain in sleep mode for 1 – 2 months before shutting down. At that point the battery must be recharged.

If the T4 battery capacity is reduced to approximately 25 percent, the low battery LED located on the front bezel of the T4 will illuminate red.

Alternatively, if the keypad backlights are programmed to be disabled, a low battery icon will appear in the top center of the display:

The low battery icon will change color to red if the battery capacity becomes critically low:

At this point the T4 must be placed into the docking station to recharge the battery.

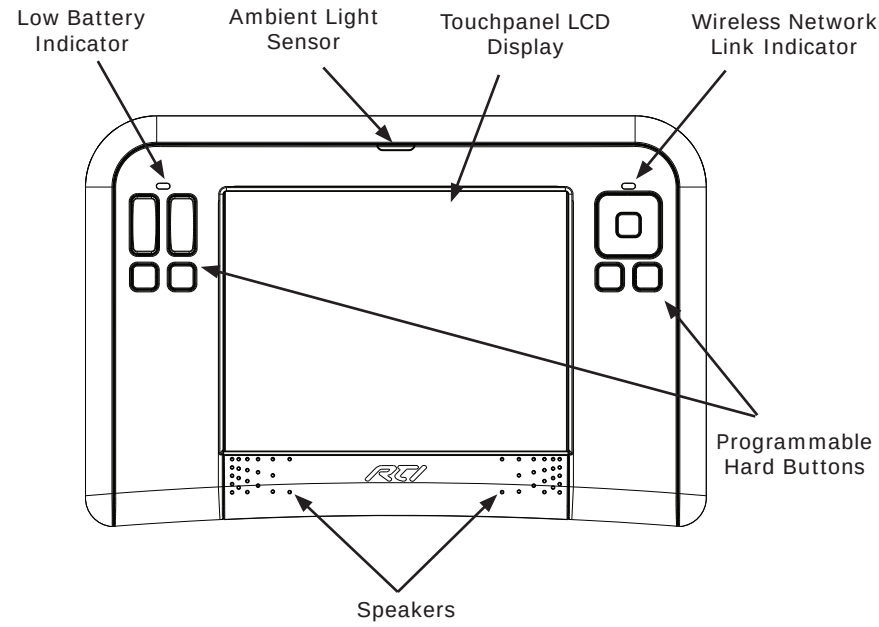
The docking station LED illuminates red to indicate a charge in progress. The LED will turn green when the battery in the unit is fully charged.

A fully discharged battery will take approximately 4-5 hours to completely re-charge.

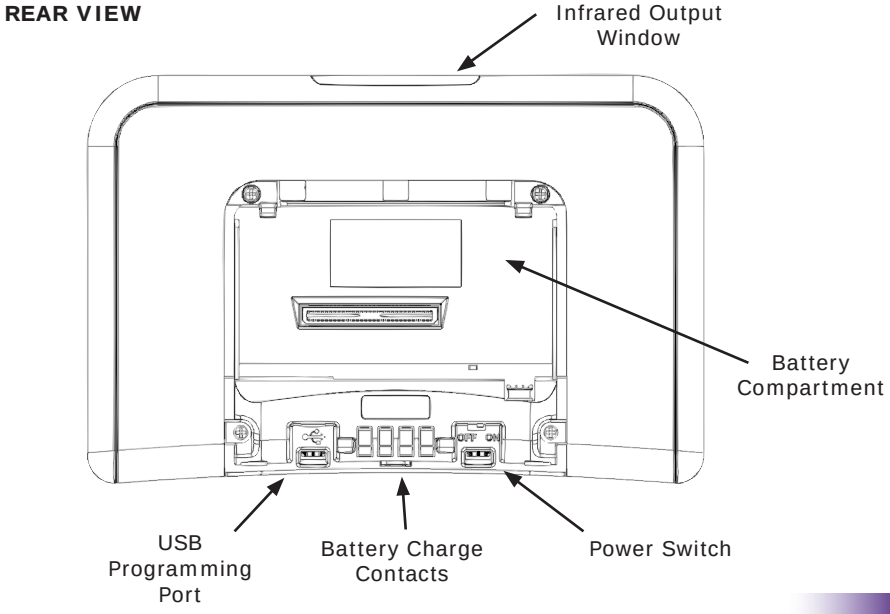
CHAPTER 2 | INTRODUCTION

REMOTE REFERENCE

FRONT VIEW

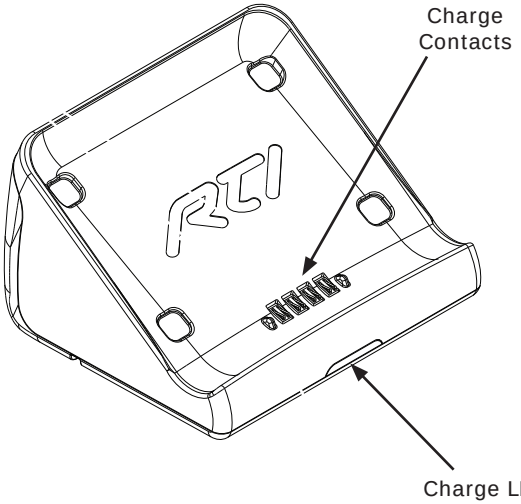


REAR VIEW

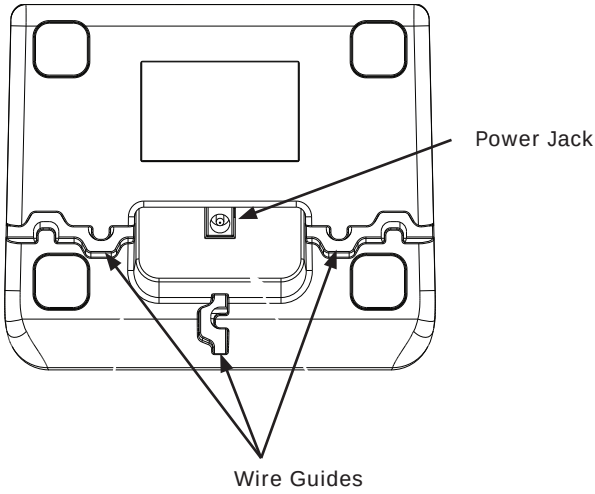


DOCKING STATION REFERENCE

TOP



BOTTOM



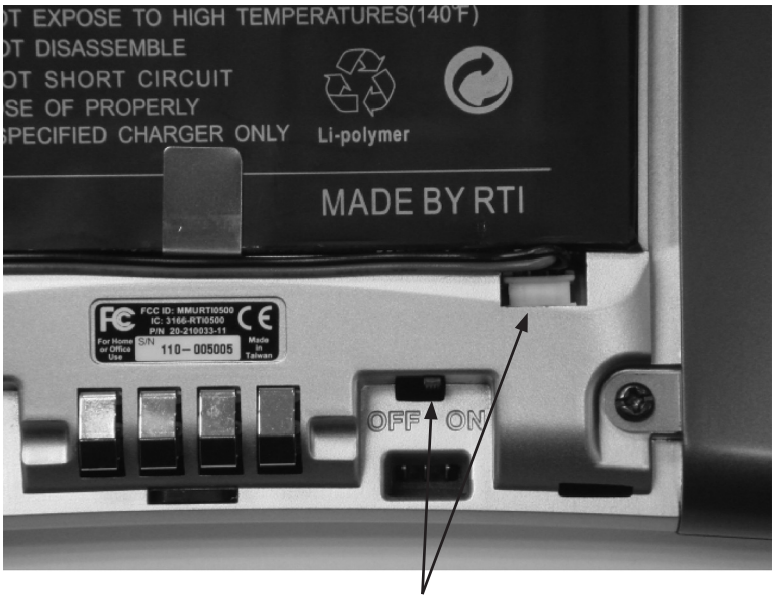
CHAPTER 3 | OPERATION

GETTING STARTED

The T4 is turned-on by simply sliding the power switch (located in the battery compartment) into the 'ON' position. If the unit shows no activity, the battery may need to be re-charged.

After power is applied, the T4 will take approximately ten seconds to load the operating system, the application software, and the user program. This long delay only occurs from a power-down state. During normal use the T4 turns-on instantly from its power down mode.

After powering down, the T4 is turned-on by touching any area of the display or any keypad button. If the tilt sensor is enabled, picking up the unit will also turn it on.



The power switch should be in the ON position, and the battery connector should be attached.

CHAPTER 3 | OPERATION

THE TOUCHSCREEN DISPLAY

The T4 touchscreen display is organized into a series of pages. Normally each page contains objects (buttons, text, graphics, etc.) that are related in some way. For instance, they may all display information necessary for controlling a particular CD player.

By default, the T4 has one Home page—all other pages are normally accessed from links on the Home page. In addition, any page can contain buttons with a link to any other page.

Normally the Home page is used to display the names of the A/V sources and other devices being controlled. The T4 will support 200 pages including the Home page.

A representation of a programmed Home page is shown below:

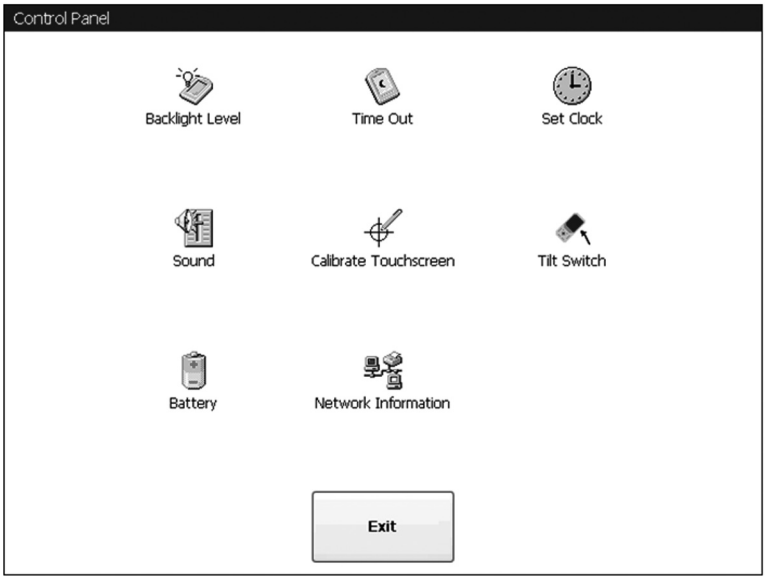
CHAPTER 3 | OPERATION

THE CONTROL PANEL PAGE

The Control Panel page can be displayed by pressing and holding the touchscreen while sliding the power switch from the 'OFF' position to the 'ON' position. Continue to hold the touchscreen until the Control Panel appears.

You can also access the Control Panel page by assigning a "Control Panel" page link to a button using the *Integration Designer*® software.

A representation of the Control Panel page is shown below:

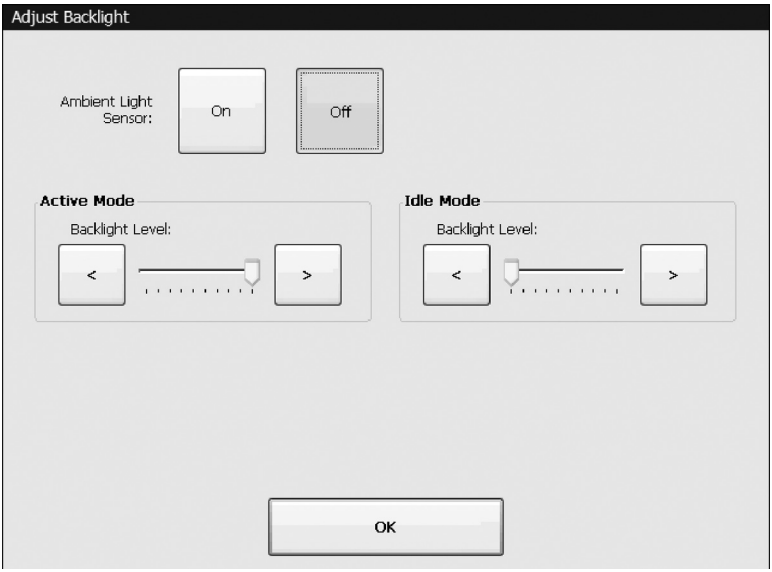


CHAPTER 3 | OPERATION

BACKLIGHT LEVEL

This button displays a window that allows you to adjust the backlight brightness and enable/disable the Ambient Light Sensor.

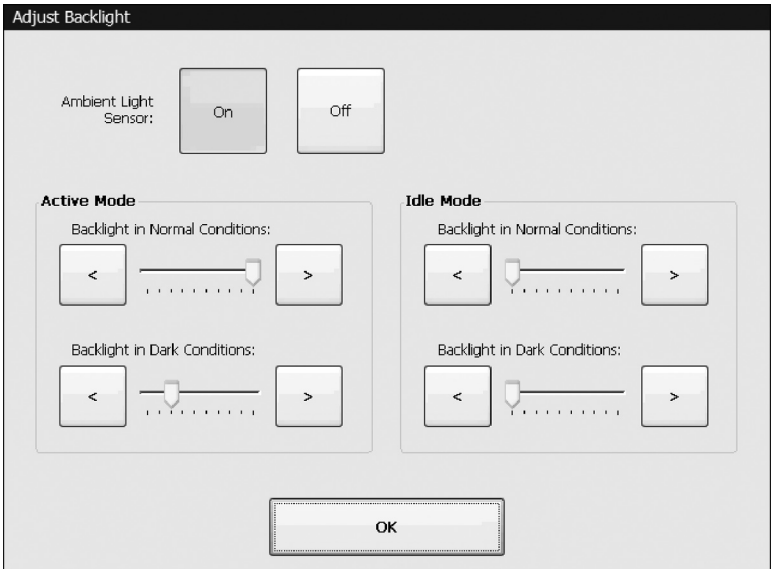
If the light sensor is disabled, there is only one backlight level to adjust. Press the left arrow or right arrow buttons to adjust. Press the OK button when finished.



With the light sensor disabled, the backlight brightness will always stay at the same level whenever the T4 is turned-on.

CHAPTER 3 | OPERATION

If the light sensor is enabled, there are two backlight levels to adjust. Press the left arrow or right arrow buttons to adjust. Press the OK button when finished.



With the light sensor enabled, the backlight brightness will automatically change between the two levels, depending upon the ambient lighting conditions.

Note: Non-zero values for the backlight level in Idle mode can be entered, but will be ignored unless the T4 is on the docking station. Also, the maximum idle mode backlight setting is 30% while on the docking station.

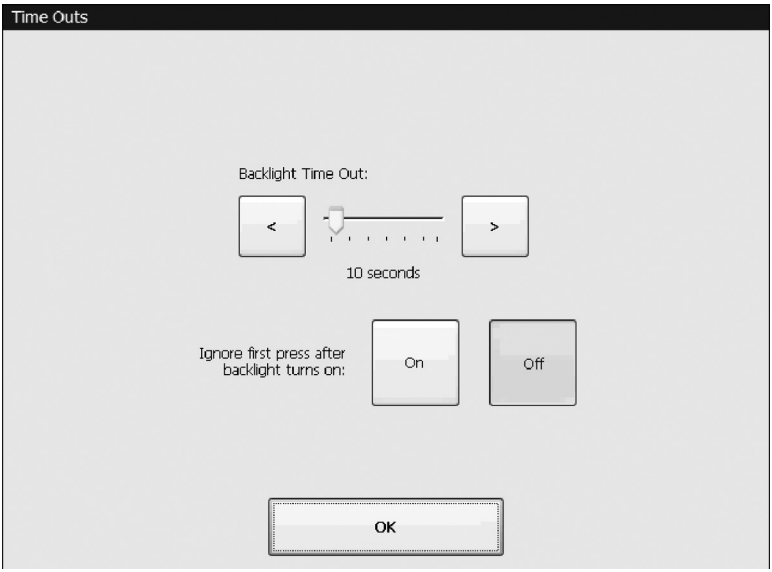
CHAPTER 3 | OPERATION

TIME OUT

This button displays a window that allows you to adjust the amount of time the unit stays awake after the last button press. The time is variable from 1 second to 120 seconds (the default is 10 seconds). Press the arrows to the left or right of the Time Out setting to adjust the time.

If the backlight is programmed to turn off in idle mode, it is a good idea to ignore the initial press of the touchscreen that turns the backlight on. This will prevent unwanted button activations from occurring (since you can't see what you're pressing on the touchscreen when the backlight is off). Select On to ignore the first press, or Off to accept the first press.

Press the OK button when finished.

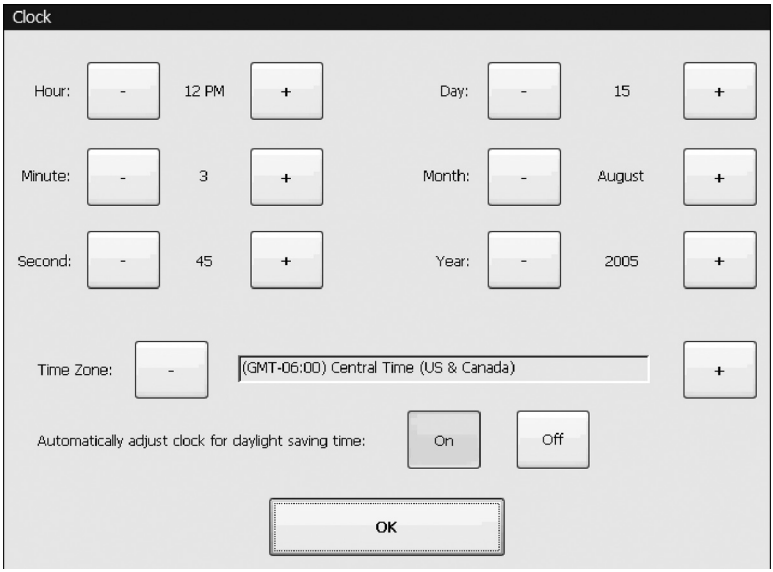


CHAPTER 3 | OPERATION

SET CLOCK

This button displays a window that allows you to adjust the settings for the built-in real time clock and calendar. You may never need to adjust these settings manually since the T4 will automatically sync with a PC or an internet NTP server when connected.

Press the OK button when finished.

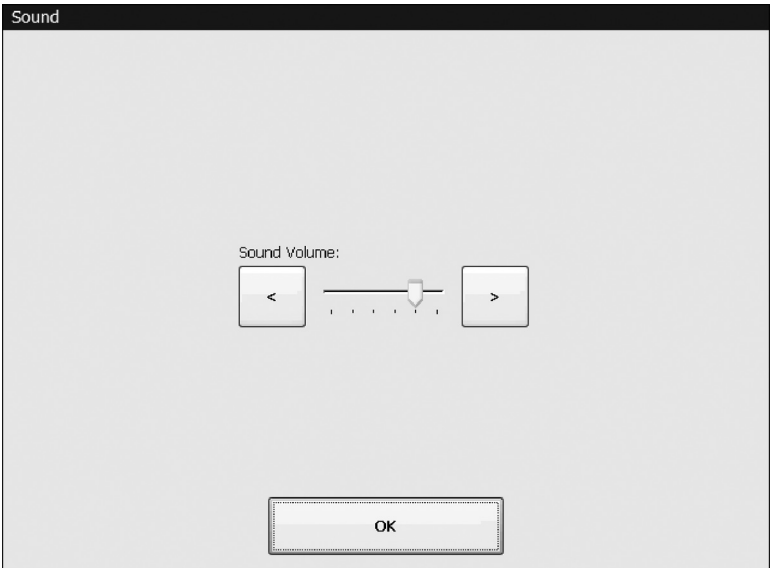


CHAPTER 3 | OPERATION

SOUND

This button displays a window that allows you to adjust the volume of the audible speakers. The speaker sound provides feedback that a button was pressed. Press the arrows to the left or right to adjust the volume.

Press the OK button when finished.



There are six discrete volume settings. The lowest setting disables the speaker.

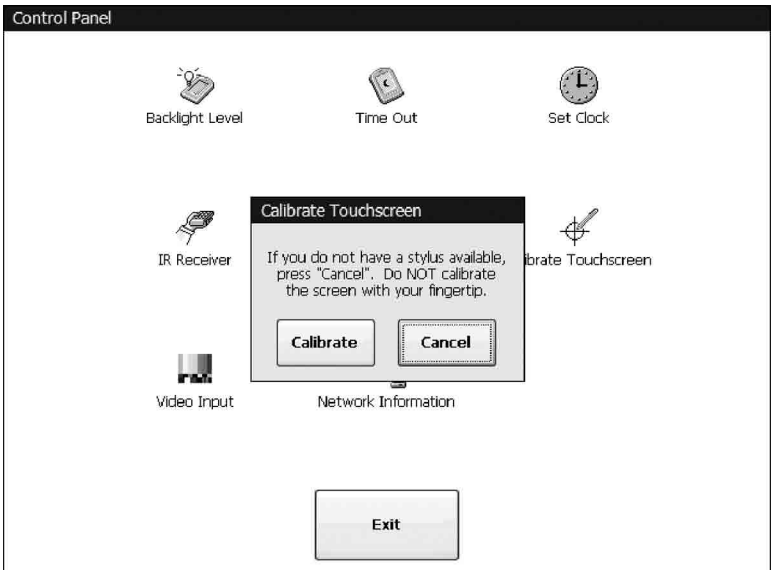
CHAPTER 3 | OPERATION

CALIBRATE TOUCHSCREEN

This button runs a routine that allows you to calibrate the touchscreen. Since it normally should not be necessary to calibrate the touchscreen, this routine is included as a precaution only.

Warning: *Do not attempt to calibrate the touchscreen with your fingertip. Proper calibration requires a stylus or other fine tip. Do not use metal objects such as ball point pens or screwdrivers that can damage the surface of the touchscreen.*

Press the Calibrate button to continue.



Follow the directions on the display to complete the calibration process. You can cancel the calibration by pressing the 'exit' keypad button on the T4.

CHAPTER 3 | OPERATION

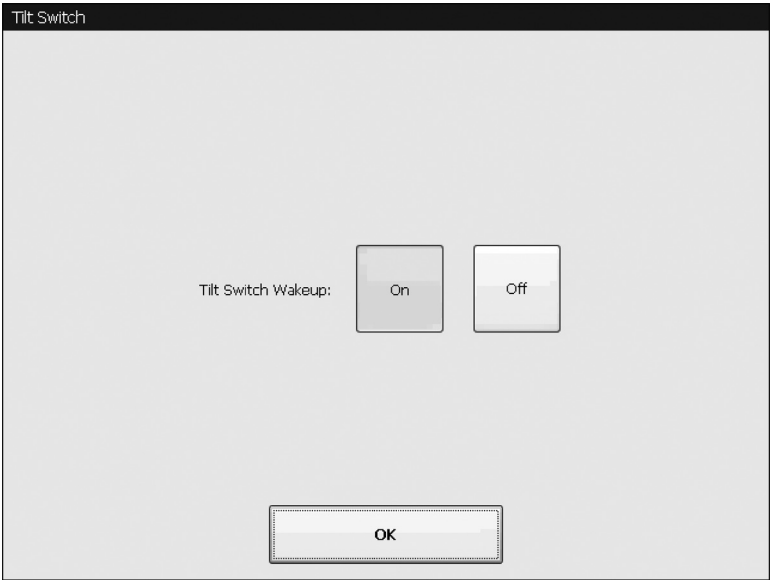
TILT SWITCH

This button displays a window that allows you to adjust the settings for the built-in tilt sensor. The tilt switch is a motion detector that turns the remote on when activated.

On means the tilt switch is active and will wake-up the T4 when it is moved.

Off means the tilt switch is inactive.

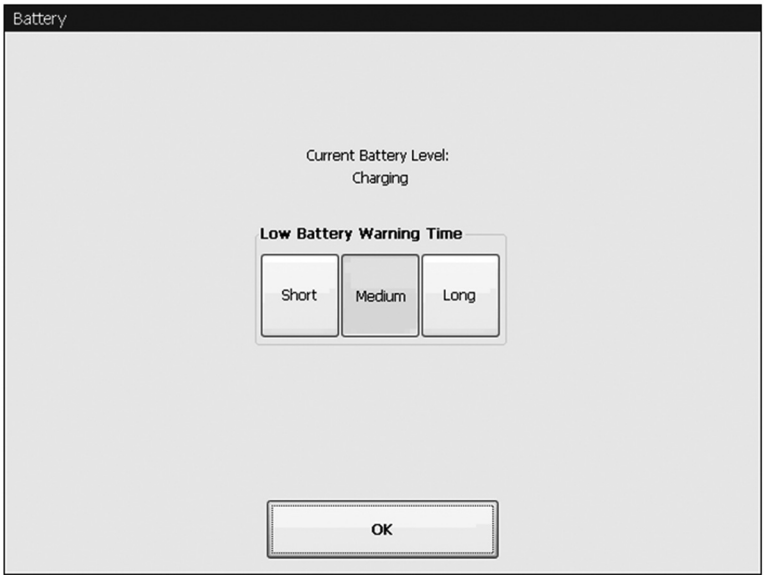
Press the OK button when finished.



CHAPTER 3 | OPERATION

BATTERY

This button displays a window that allows you to adjust the relative amount of time that the low battery icon appears on the display. This setting will determine how much time you have between the appearance of the low battery warning and the battery becoming completely depleted. Press the OK button when finished.

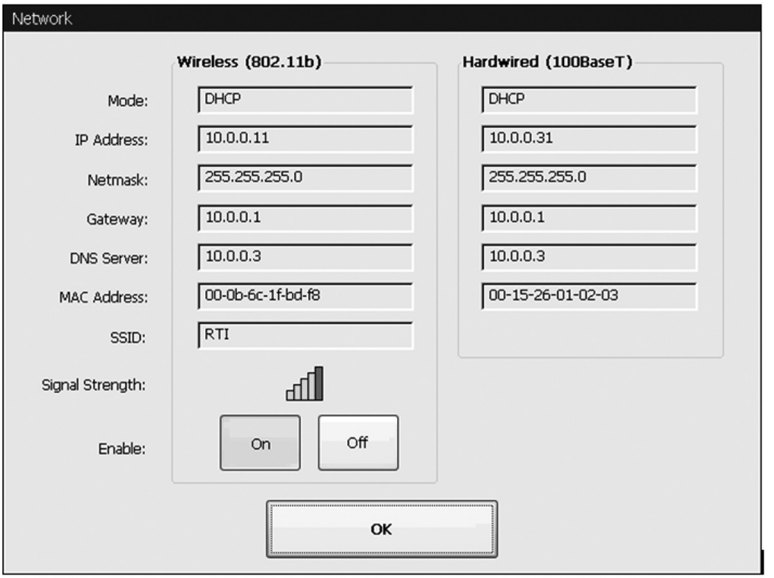


CHAPTER 3 | OPERATION

NETWORK INFORMATION

This button displays a window that allows you to view the Ethernet network information. This is mainly for troubleshooting purposes.

Press the OK button when finished.



Note:

- The "Mode" field will show "Static" or "DHCP" for the IP addressing mode if the network adapter is active. For the Hard wired adapter, it will show "Not Installed" if there is no expansion module present. For the Wireless adapter, it will show "Disabled" if it is disabled or "Not Connected" if it is enabled but does not have an active wireless connection.
- The Enable button does not take effect until the OK button is pressed. If you are enabling the adapter and want to see the signal strength - press ON, then press OK, then choose the "Network Information" control panel again.
- Since the T4 can be programmed with the settings for more than one network, the SSID field shows which wireless network is currently connected.

CHAPTER 3 | OPERATION

THE WEB BROWSER

The T4 includes Internet Explorer® for web browsing on the internet. Although most website content is compatible with the T4, please note that plug-ins such as JAVA® and Flash®, streaming video, and persistent cookies are not supported.

A graphical representation of a keyboard will automatically pop-up on the display whenever text entry is required. The keyboard can be dragged around the display by using its title bar. It can be dismissed by touching anywhere on the display that is outside of the keyboard.

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Welcome to Remote Technologies Inc.
Input Panel
1 2 3 4 5 6 7 8 9 0 - = bksp
q w e r t y u i o p [ ] ← →
a s d f g h j k l ; ' ` enter
z x c v b n m , . / \ shift space

CHAPTER 4 | PROGRAMMING

PROGRAMMING THE T4

The T4 is programmed using RTI's *Integration Designer*® software. RTI dealers can download the software from:

www.rticorp.com/dealers

A PC running Windows XP® or higher with a USB port is required. The required USB cable is included with the RTI IR-PRO dealer kit.

In addition to using the USB port, the T4 can also be programmed using wireless Ethernet via a LAN connection to its 802.11 card. This allows you to update multiple T4 units from one location, either at the site or remotely.

Note: The T4 must be initially programmed using its USB port so that the network information can be entered.

CHAPTER 5 | SPECIFICATIONS

Power	7.2VDC 4000 mAh Lithium-Polymer Battery Pack Power
Power Management	Automatic On/Off (tilt switch)
Infrared Control Range	30 feet (9.1 meters) @ 60 degrees
Infrared Frequency Transmission Range	15 kHz - 460 khz
Radio Frequency Control Range	Up to 100 feet (30.5 meters)
Radio Frequency	802.15.4 @ 2.4 GHz (ZigBee® Wireless Mesh Networking)
Wireless Ethernet	802.11 @ 2.4 GHz
Touchscreen Display	High-brightness color TFT LCD Full VGA (640x480 pixels) with 65K colors 300:1 contrast ratio Integrated high-resolution touchscreen
Display Size	6.4 in (162mm)
Backlight	Dual CCFL, 300nit (Display) Blue LED (keypads)
Operating Temperature	+32° F to +122° F (0° C to +50° C)
Operating Humidity	5% to 95% Non-condensing
Total System Memory	32M Bytes Flash (non-volatile) memory
Device Capability	Total number of devices is limited only by memory
Macro Capability	Unlimited steps per macro. Total number of macros is limited only by memory Macro capability on every button
Communications	USB programming port
Dimensions (L x W x D)	6.2 in (157mm) x 9.4 in (239mm) x 2.6 in (66mm)
Enclosure	High-impact molded ABS plastic
Weight	2 lbs (0.91 kg)
Warranty	One Year (Parts & Labor) / 90 days on battery

All specifications subject to change without notice.

CHAPTER 6 | TROUBLESHOOTING

If you are having problems with your T4 Universal System Controller, please read the information below before contacting technical support.

If you continue to have problems, see Chapter 7 for more information on contacting RTI technical support.

DISPLAY IS DIM, BLANK OR UNREADABLE

- Make sure the battery pack connector is attached properly and the battery is charged.
- Try adjusting the backlight level from the Control Panel page (Refer to Chapter 3 for more details).
- By nature, the contrast of an LCD screen changes with temperature, so if the display is cold it will appear dark and will return to normal as it warms.

USB COMMUNICATION PROBLEMS

- Verify that your PC is running Windows XP® or higher.
- Verify that the T4 USB driver was installed the first time the T4 was connected to your PC.
- Verify that the T4 is present in the Device Manager within the Windows® Control Panel.
- Make sure you are using the programming cable that was supplied by RTI and that both ends are connected securely.
- Make sure the PC detects the presence of the T4. If it doesn't, unplug the USB cable, wait for about ten seconds, and plug it in again.
- If the download fails after some data has been transferred, try re-sending the program.

IR CODE PROBLEMS

- If you are using an IR repeater system, make sure it is working correctly with the original OEM remote. If not, you will need to troubleshoot the IR repeater system.
- If you are still having problems, try adjusting the IR code "Minimum Repeats" value in the Integration Designer programming software.
- If the IR code is executed inside a macro that contains multiple IR codes, try inserting a small time delay before the problem code. If there already is a delay, try increasing it.

CHAPTER 7 | SERVICE AND SUPPORT

For news about the latest updates, new product information, and new accessories, please visit our web site at:

www.rticorp.com

CONTACTING RTI

For general info, you can contact RTI at:

Tel. (952) 253-3100
Fax (952) 253-3131
info@rticorp.com

RTI TECHNICAL SUPPORT

At RTI, customer service and satisfaction is an utmost priority. If you are encountering any problems or have a question about your RTI product, please contact RTI Technical Support for assistance.

RTI provides technical support by telephone, fax or e-mail. For the highest quality service, please have the following information ready, or provide it in your fax or e-mail.

- Your Name
- Company Name
- Telephone Number
- E-mail Address
- Product model and serial number (if applicable)

If you are having a problem with hardware, please note the equipment in your system, a description of the problem, and any troubleshooting you have already tried.

If you are having a problem with software, please note what version you have installed, the operating system on your PC, a description of the problem, and any troubleshooting you have already tried.

If you are calling about a software or programming question or problem, please be at you computer when you place your call. This will considerably speed up the troubleshooting process.

For technical support or assistance with your T4, software, or accessories, contact RTI at:

(952) 253-3137
support@rticorp.com
www.rticorp.com

For questions regarding service or repair of your T4, contact RTI at:

(952) 253-3136
service@rticorp.com
www.rticorp.com

Please do not return products to RTI without return authorization.

CHAPTER 7 | SERVICE AND SUPPORT

Shipment of T4 for Service

RTI will pay all labor and material expenses for all repairs covered by this product's warranty. If necessary repairs are not covered by warranty, or if a unit is examined which is not in need of repair, you may be charged for the repairs or examination.

If it is necessary to ship the T4 Universal System Controller for service:

- Please pack it securely (we suggest that it be insured).
- Do not include accessories such as power cords or manuals unless instructed to do so.

You must pay any shipping charges incurred in getting your T4 Universal System Controller to RTI. RTI will pay reasonable return shipping charges via a carrier of our choice to any destination within the United States if the repairs are covered under warranty.

A copy of the original dated sales receipt must be provided whenever warranty service is required. You will need this receipt to establish the date of purchase.

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It's Under Control®

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